1 May 1998

OPTICS COMMUNICATIONS

ELSEVIER

Optics Communications 150 (1998) 399–405

Author index to volume 150

Ablowitz, M.J., G. Biondini, S. Chakravarty and R.L. Horne, On timing Jitter in wavelength-division multiplexed soliton systems 150 (1998) 305
Andraud, C., see Hild, N. 150 (1998) 223
Assanto, G., see De Rossi, A. 150 (1998) 390
Asundi, A., see Sajan, M.R. 150 (1998) 66
Atai, J., see Chen, Y. 150 (1998) 381

Baiocchi, D., see Landahl, E. 150 (1998) 339
Barnes, T.H., see Somervell, A.R.D. 150 (1998) 61
Bennion, I., see Phillips, I.D. 150 (1998) 101
Bernard, J.E., L. Marmet and A.A. Madej, A laser frequency lock referenced to a single trapped ion 150 (1998) 170
Bertilone, D.C., see Chapple, P.B. 150 (1998) 71
Beržanskis, A., A. Matijošius, A. Piskarskas, V. Smilgevičius and A. Stabinis, Sum-frequency mixing of optical vortices in nonlinear crystals 150 (1998) 372
Beysens, D.A., see Nikolayev, V.S. 150 (1998) 263
Biondini, G., see Ablowitz, M.J. 150 (1998) 305
Bittner, R., see Meerholz, K. 150 (1998) 205
Björk, G., see Höijer, M. 150 (1998) 319
Blackburn, R.D., see Shakos, J.D. 150 (1998) 230
Bonifacio, R., Classical and quantum self amplified spontaneous emission in a high gain free electron laser 150 (1998) 126
Boriskov, P.P., see Bugayev, A.A. 150 (1998) 115
Boudebs, G., M. Chis and A. Monteil, Contrast increasing by third-order nonlinear image processing: a numerical study for microscopic rectangular objects 150 (1998) 287
Bourdet, G.L. and G. Lescroart, Theoretical modelling of mode formation in Tm^{3+}:YVO_4 microchip lasers 150 (1998) 136
Bourdet, G.L., G. Lescroart and R. Muller, Spectral characteristics of 2 μm microchip Tm:YVO_4 and Tm,Ho:YLF lasers 150 (1998) 141
Boyd, J.T., see Naghski, D.H. 150 (1998) 97
Bozhevolnyi, S.I., B. Vohnsen and K. Pedersen, Near-field optical microscopy of nonlinear susceptibilities 150 (1998) 49
Brener, I., see Hunsche, S. 150 (1998) 22
Brouder, C., see Cabaret, D. 150 (1998) 239
Bugayev, A.A. and P.P. Boriskov, Time-resolved two-beam coupling in silicon 150 (1998) 115

0030-4018/98/$19.00 © 1998 Elsevier Science B.V. All rights reserved.
PII S0030-4018(98)00200-4

Cabaret, D., S. Rossano and C. Brouder, Mie scattering of a partially coherent beam 150 (1998) 239
Castro-Beltran, H.M., J.J. Sanchez-Mondragon and S.M. Chumakov, Extra revivals in cooperative atomic inversion in a cavity 150 (1998) 348
Chakravarty, S., see Ablowitz, M.J. 150 (1998) 305
Chang, J.-W., see Yen, T.-C. 150 (1998) 158
Chapple, P.B. and D.C. Bertilone, Stochastic simulation of infrared non-Gaussian natural terrain imagery 150 (1998) 71
Chassagne, B., G. Jonusauskas, J. Oberlé and C. Rullière, Multipulse operation regime in a self-mode-locked Cr^{4+}:forsterite femtosecond laser 150 (1998) 355
Chekalin, S.V., see Dement'ev, D.A. 150 (1998) 38
Chen, H., see Zhang, L. 150 (1998) 213
Chen, R.-J., see Yen, T.-C. 150 (1998) 158
Chen, X., see Zhang, L. 150 (1998) 213
Chen, Y. and J. Atai, Stability of fundamental solitons of coupled nonlinear Schrödinger equations 150 (1998) 381
Chilaya, G., see Macdonald, R. 150 (1998) 195
Chis, M., see Boudebs, G. 150 (1998) 287
Chumakov, S.M., see Castro-Beltran, H.M. 150 (1998) 348
Cipparrone, G., A. Mazzulla, F.P. Nicoletta, L. Lucchetti and F. Simoni, Holographic grating formation in dye doped polymer dispersed liquid crystals 150 (1998) 297
Collet, A., see Hild, N. 150 (1998) 223
Cox, A.M., see Shakos, J.D. 150 (1998) 230

Dement'ev, D.A., A.L. Ivanov, O.B. Serov, A.G. Stepanov, Yu.A. Matveets, S.V. Chekalin and A.M. Smolovich, Geometric-optical reconstruction of a wavefront experimental realization with femtosecond laser pulses 150 (1998) 38
De Nardin, Y., see Meerholz, K. 150 (1998) 205
De Rossi, A., G. Assanto, S. Trillo and W.E. Torruellas, Excitation of stable transverse wavepackets with quadratic and cubic susceptibilities 150 (1998) 390
Dohnalik, T., see Kiersnowski, K. 150 (1998) 106
Doran, N.J., see Phillips, I.D. 150 (1998) 101
Dragoman, D. and M. Dragoman, Optical modelling of quantum dots 150 (1998) 331
Dragoman, M., see Dragoman, D. 150 (1998) 331
Durant, J.L., see Sweetser, J.N. 150 (1998) 180

Ellis, A.D., see Phillips, I.D. 150 (1998) 101
Ezbiri, A., S.E. Kanellopoulos and V.A. Handerek, High resolution instrumentation system for fibre-Bragg grating aerospace sensors 150 (1998) 43

Figueira de Morisson Faria, C., see Steudel, H. 150 (1998) 363
Forbes, G.W., see Gordon, R.L. 150 (1998) 277
Frieden, B.R., An exact, linear solution to the problem of imaging through turbulence 150 (1998) 15

Gao, P., see Zhang, T. 150 (1998) 201
Gloag, A., see Phillips, I.D. 150 (1998) 101
Gong, Q., see Zhang, T. 150 (1998) 201
Gordon, R.L. and G.W. Forbes, Optimal resolution with extreme depth of focus 150 (1998) 277
Gross, B., see Manassah, J.T. 150 (1998) 189

Guan, K., see Yu, J.-J. 150 (1998) 85
Guo, G.-C., see Li, C.-F. 150 (1998) 219
Guy, M.J., J.R. Taylor and R. Kashyap, Demonstration of the possibility of > 100 Gbit/s transmission over 77 km of standard fibre using a super-step-chirped fibre grating dispersion compensator. 150 (1998) 77

Hamam, H., A two-way optical interconnection network using a single mode fiber array 150 (1998) 270
Han, J., see Zhang, L. 150 (1998) 213
Handerek, V.A., see Ezbiri, A. 150 (1998) 43
Herrmann, J., see Müller, M. 150 (1998) 147
Hild, N., S. Khodja, C. Andraud, I. Ledoux, J. Zyss and A. Collet, Crystal growth and characterisation of new organic nonlinear optical materials: 6-cyano and 6-nitro-2,2-dimethyl-3,4-epoxychroman 150 (1998) 223
Hofstra, R.M., M.J. Zwegers, F.A. van Goor and W.J. Witteman, Variable reflectivity unstable resonators for a long pulse XeCl excimer laser 150 (1998) 163
Höijer, M. and G. Björk, Modification of spontaneous emission rate in planar dielectric microcavities – seen as superradiance and subradiance 150 (1998) 319
Horne, R.L., see Ablowitz, M.J. 150 (1998) 305
Huang, X.G. and M.R. Wang, A novel quasi-phase-matching frequency doubling technique 150 (1998) 235
Hunsche, S., M. Koch, I. Brener and M.C. Nuss, THz near-field imaging 150 (1998) 22

Ivanov, A.L., see Dement'ev, D.A. 150 (1998) 38

Jaaskelainen, T., see Khomenko, A.V. 150 (1998) 175
Jackson, H.E., see Naghski, D.H. 150 (1998) 97
Jiang, D., see Stamnes, J.J. 150 (1998) 251
Jin, X., see Zhang, T. 150 (1998) 201
Jonusauskas, G., see Chassagne, B. 150 (1998) 355
Józefowski, L., see Kiersnowski, K. 150 (1998) 106

Kabashin, A.V. and P.I. Nikitin, Surface plasmon resonance interferometer for bio- and chemical-sensors 150 (1998) 5
Kalosha, V.P., see Müller, M. 150 (1998) 147
Kamchatnov, A.M., see Steudel, H. 150 (1998) 363
Kamshilin, A.A., see Khomenko, A.V. 150 (1998) 175
Kanellopoulos, S.E., see Ezbiri, A. 150 (1998) 43
Kashyap, R., see Guy, M.J. 150 (1998) 77
Khodja, S., see Hild, N. 150 (1998) 223
Khomenko, A.V., E. Nippolainen, A.A. Kamshilin, A. Zúñiga Segundo and T. Jaaskelainen, Leaky photorefractive surface waves in $Bi_{12}TiO_{20}$ and $Bi_{12}SiO_{20}$ crystals 150 (1998) 175
Kiersnowski, K., L. Józefowski and T. Dohnalik, Evanescent light–atom interaction detected by optogalvanic effect 150 (1998) 106
King, T.A., see Shakos, J.D. 150 (1998) 230
Koch, M., see Hunsche, S. 150 (1998) 22
Kumar, A. and A. Kumar, A comparative numerical study of soliton switching in a nonlinear directional coupler with saturating nonlinearity 150 (1998) 91
Kumar, A., see Kumar, A. 150 (1998) 91

Landahl, E., D. Baiocchi and J.R. Thompson, A simple analytic model for noise shaping by an optical fiber Raman generator 150 (1998) 339
Ledoux, I., see Hild, N. 150 (1998) 223
Leone, S.R., see Schade, W. 150 (1998) 27
Lescroart, G., see Bourdet, G.L. 150 (1998) 136
Lescroart, G., see Bourdet, G.L. 150 (1998) 141
Li, C.-F. and G.-C. Guo, The one-dimensional soliton state of Bose-Einstein condensate 150 (1998) 219
Li, J., see Zhang, T. 150 (1998) 201
Li, L., see Zhang, T. 150 (1998) 201
Lin, J.-M., see Yen, T.-C. 150 (1998) 158
Lin, Q. and E. Wintner, Three-dimensional evolution of ultrashort pulses in dispersive media beyond the slowly varying envelope approximation 150 (1998) 185
Liu, H. and J. Sun, Maser action without inversion in interstellar space 150 (1998) 153
Löffler, M. and H. Walther, Atomic coherence effects in the ion-trap laser 150 (1998) 131
Lucchetti, L., see Cipparrone, G. 150 (1998) 297

Macdonald, R., P. Meindl, G. Chilaya and D. Sikharulidze, Photo-excitation of space charge fields and reorientation of a nematic liquid crystal of discotic molecules 150 (1998) 195
Madej, A.A., see Bernard, J.E. 150 (1998) 170
Manassah, J.T. and B. Gross, Superradiance in a dense open Λ-system 150 (1998) 189
Marmet, L., see Bernard, J.E. 150 (1998) 170
Martin, O.J.F., see Piller, N.B. 150 (1998) 9
Matijošius, A., see Beržanskis, A. 150 (1998) 372
Matsumoto, Y., see Takahashi, E. 150 (1998) 56
Matsushima, I., see Takahashi, E. 150 (1998) 56
Matveets, Yu.A., see Dement'ev, D.A. 150 (1998) 38
Mazzoni, M., Emission spectra following radiation trapping switching off: coherent effects detected up to resonance and signal enhancement 150 (1998) 111
Mazzulla, A., see Cipparrone, G. 150 (1998) 297
Meerholz, K., R. Bittner and Y. De Nardin, Field asymmetry of the dynamic gain coefficient in organic photorefractive devices 150 (1998) 205
Meindl, P., see Macdonald, R. 150 (1998) 195
Mondal, S.K. and S.N. Sarkar, Interesting effect of optical Kerr nonlinearity in expanding single-mode regime of optical fibers using dispersion-flattened profiles 150 (1998) 81
Monteil, A., see Boudebs, G. 150 (1998) 287
Moodie, D.G., see Phillips, I.D. 150 (1998) 101
Müller, M., V.P. Kalosha and J. Herrmann, 2π-pulse laser using an intracavity quantum-well absorber 150 (1998) 147
Muller, R., see Bourdet, G.L. 150 (1998) 141

Naghski, D.H., J.T. Boyd, H.E. Jackson and A.J. Steckl, Potential for size reduction of AlGaAs optical channel waveguide structures fabricated by focused ion beam implantation and oxidation 150 (1998) 97
Nicoletta, F.P., see Cipparrone, G. 150 (1998) 297
Nikitin, P.I., see Kabashin, A.V. 150 (1998) 5
Nikolayev, V.S., P. Sibille and D.A. Beysens, Coherent light transmission by a dew pattern 150 (1998) 263
Nippolainen, E., see Khomenko, A.V. 150 (1998) 175
Nuss, M.C., see Hunsche, S. 150 (1998) 22

Oberlé, J., see Chassagne, B. 150 (1998) 355
Okuda, I., see Takahashi, E. 150 (1998) 56
Osborn, D.L., see Schade, W. 150 (1998) 27
Owadano, Y., see Takahashi, E. 150 (1998) 56

Paneva, A., see Tonova, D. 150 (1998) 121
Pantchev, B., see Tonova, D. 150 (1998) 121
Paris, M.G.A., see Steudel, H. 150 (1998) 363
Pati, G.S., G. Unnikrishnan and K. Singh, Multichannel image addition and subtraction using joint-transform correlator architecture 150 (1998) 33
Pedersen, K., see Bozhevolnyi, S.I. 150 (1998) 49
Phillips, I.D., A. Gloag, D.G. Moodie, N.J. Doran, I. Bennion and A.D. Ellis, Simultaneous demultiplexing and clock recovery using a single electroabsorption modulator in a novel bi-directional configuration 150 (1998) 101
Piller, N.B. and O.J.F. Martin, Extension of the generalized multipole technique to anisotropic medias 150 (1998) 9
Piskarskas, A., see Beržanskis, A. 150 (1998) 372
Preusser, J., see Schade, W. 150 (1998) 27

Rossano, S., see Cabaret, D. 150 (1998) 239
Rother, T., see Schmidt, K. 150 (1998) 1
Rullière, C., see Chassagne, B. 150 (1998) 355

Sajan, M.R., C.J. Tay, H.M. Shang and A. Asundi, Improved spatial phase detection for profilometry using a TDI imager 150 (1998) 66
Sanchez-Mondragon, J.J., see Castro-Beltran, H.M. 150 (1998) 348
Sarkar, S.N., see Mondal, S.K. 150 (1998) 81
Schade, W., D.L. Osborn, J. Preusser and S.R. Leone, Two-color cross-correlation of fs-laser pulses by two-photon induced photoconductivity for near and far field optical measurements 150 (1998) 27
Schmidt, K., T. Rother and J. Wauer, The equivalence of applying the Extended Boundary Condition and the continuity conditions for solving electromagnetic scattering problems 150 (1998) 1
Serov, O.B., see Dement'ev, D.A. 150 (1998) 38
Shakos, J.D., A.M. Cox, D.P. West, K.S. West, F.A. Wade, T.A. King and R.D. Blackburn, Processes limiting the rate of response in photorefractive composites 150 (1998) 230
Shang, H.M., see Sajan, M.R. 150 (1998) 66
Shao, Z., see Zhang, L. 150 (1998) 213
Sibille, P., see Nikolayev, V.S. 150 (1998) 263
Sikharulidze, D., see Macdonald, R. 150 (1998) 195
Simoni, F., see Cipparrone, G. 150 (1998) 297
Singh, K., see Pati, G.S. 150 (1998) 33
Smilgevičius, V., see Beržanskis, A. 150 (1998) 372
Smolovich, A.M., see Dement'ev, D.A. 150 (1998) 38
Somervell, A.R.D. and T.H. Barnes, Unambiguous measurement of surface profile using a Sagnac interferometer with phase feedback 150 (1998) 61
Stabinis, A., see Beržanskis, A. 150 (1998) 372
Stamnes, J.J. and D. Jiang, Focusing of electromagnetic waves into a uniaxial crystal 150 (1998) 251
Steckl, A.J., see Naghski, D.H. 150 (1998) 97

Stepanov, A.G., see Dement'ev, D.A. 150 (1998) 38
Steudel, H., C. Figueira de Morisson Faria, M.G.A. Paris, A.M. Kamchatnov and O. Steuernagel, Second harmonic generation: the solution for an amplitude-modulated initial pulse 150 (1998) 363
Steuernagel, O., see Steudel, H. 150 (1998) 363
Sun, J., see Liu, H. 150 (1998) 153
Sweetser, J.N., J.L. Durant and R. Trebino, Ultrafast spectroscopy of high-lying excited states via eight-wave mixing 150 (1998) 180

Takahashi, E., I. Matsushima, Y. Matsumoto, I. Okuda and Y. Owadano, Two-dimensional measurement of laser-induced target movement by face-on interferometry 150 (1998) 56
Tang, K., see Zhang, T. 150 (1998) 201
Tay, C.J., see Sajan, M.R. 150 (1998) 66
Taylor, J.R., see Guy, M.J. 150 (1998) 77
Thompson, J.R., see Landahl, E. 150 (1998) 339
Tonova, D., A. Paneva and B. Pantchev, Determination of refractive index profiles of gradient optical waveguides by ellipsometry 150 (1998) 121
Torruellas, W.E., see De Rossi, A. 150 (1998) 390
Trebino, R., see Sweetser, J.N. 150 (1998) 180
Trillo, S., see De Rossi, A. 150 (1998) 390

Unnikrishnan, G., see Pati, G.S. 150 (1998) 33

Van Goor, F.A., see Hofstra, R.M. 150 (1998) 163
Vodopyanov, K.L., Megawatt peak power 8–13 μm CdSe optical parametric generator pumped at 2.8 μm 150 (1998) 210
Vohnsen, B., see Bozhevolnyi, S.I. 150 (1998) 49

Wade, F.A., see Shakos, J.D. 150 (1998) 230
Walther, H., see Löffler, M. 150 (1998) 131
Wang, M.R., see Huang, X.G. 150 (1998) 235
Wauer, J., see Schmidt, K. 150 (1998) 1
West, D.P., see Shakos, J.D. 150 (1998) 230
West, K.S., see Shakos, J.D. 150 (1998) 230
Wintner, E., see Lin, Q. 150 (1998) 185
Witteman, W.J., see Hofstra, R.M. 150 (1998) 163

Xu, J., see Zhang, L. 150 (1998) 213
Xu, Z., see Yu, J.-J. 150 (1998) 85

Yang, B., see Yu, J.-J. 150 (1998) 85
Yen, T.-C., J.-W. Chang, J.-M. Lin and R.-J. Chen, High-frequency optical signal generation in a semiconductor laser by incoherent optical feedback 150 (1998) 158
Yu, J.-J., K. Guan, Z. Xu and B. Yang, The effects of different dispersion compensation ratios on nonlinear single channel and WDM systems 150 (1998) 85

Zhang, G., see Zhang, L. 150 (1998) 213
Zhang, L., W. Zhang, X. Chen, J. Xu, G. Zhang, Z. Shao, H. Chen and J. Han, Suppression of dynamic instability and comparison of the response time in mutually pumped phase conjugators 150 (1998) 213

Zhang, T., J. Li, P. Gao, Q. Gong, K. Tang, X. Jin, S. Zheng and L. Li, Enhanced optical limiting performance of a novel molybdenum complex of fullerene 150 (1998) 201
Zhang, W., see Zhang, L. 150 (1998) 213
Zheng, S., see Zhang, T. 150 (1998) 201
Zúñiga Segundo, A., see Khomenko, A.V. 150 (1998) 175
Zwegers, M.J., see Hofstra, R.M. 150 (1998) 163
Zyss, J., see Hild, N. 150 (1998) 223

ELSEVIER

1 May 1998

Optics Communications 150 (1998) 406–409

OPTICS COMMUNICATIONS

Subject index to volume 150

Propagation, diffraction and scattering

K. Schmidt, T. Rother and J. Wauer, The equivalence of applying the Extended Boundary Condition and the continuity conditions for solving electromagnetic scattering problems 1

A.V. Kabashin and P.I. Nikitin, Surface plasmon resonance interferometer for bio- and chemical-sensors 5

N.B. Piller and O.J.F. Martin, Extension of the generalized multipole technique to anisotropic medias 9

D. Cabaret, S. Rossano and C. Brouder, Mie scattering of a partially coherent beam 239

J.J. Stamnes and D. Jiang, Focusing of electromagnetic waves into a uniaxial crystal 251

V.S. Nikolayev, P. Sibille and D.A. Beysens, Coherent light transmission by a dew pattern 263

Optical information, image formation and analysis, optical computing

B.R. Frieden, An exact, linear solution to the problem of imaging through turbulence 15

S. Hunsche, M. Koch, I. Brener and M.C. Nuss, THz near-field imaging 22

W. Schade, D.L. Osborn, J. Preusser and S.R. Leone, Two-color cross-correlation of fs-laser pulses by two-photon induced photoconductivity for near and far field optical measurements 27

G.S. Pati, G. Unnikrishnan and K. Singh, Multichannel image addition and subtraction using joint-transform correlator architecture 33

D.A. Dement'ev, A.L. Ivanov, O.B. Serov, A.G. Stepanov, Yu.A. Matveets, S.V. Chekalin and A.M. Smolovich, Geometric-optical reconstruction of a wavefront experimental realization with femtosecond laser pulses 38

A. Ezbiri, S.E. Kanellopoulos and V.A. Handerek, High resolution instrumentation system for fibre-Bragg grating aerospace sensors 43

S.I. Bozhevolnyi, B. Vohnsen and K. Pedersen, Near-field optical microscopy of nonlinear susceptibilities 49

0030-4018/98/$19.00 © 1998 Elsevier Science B.V. All rights reserved.
PII S0030-4018(98)00201-6

E. Takahashi, I. Matsushima, Y. Matsumoto, I. Okuda and Y. Owadano, Two-dimensional measurement of laser-induced target movement by face-on interferometry 56

A.R.D. Somervell and T.H. Barnes, Unambiguous measurement of surface profile using a Sagnac interferometer with phase feedback 61

M.R. Sajan, C.J. Tay, H.M. Shang and A. Asundi, Improved spatial phase detection for profilometry using a TDI imager 66

P.B. Chapple and D.C. Bertilone, Stochastic simulation of infrared non-Gaussian natural terrain imagery 71

H. Hamam, A two-way optical interconnection network using a single mode fiber array 270

R.L. Gordon and G.W. Forbes, Optimal resolution with extreme depth of focus 277

G. Boudebs, M. Chis and A. Monteil, Contrast increasing by third-order nonlinear image processing: a numerical study for microscopic rectangular objects 287

G. Cipparrone, A. Mazzulla, F.P. Nicoletta, L. Lucchetti and F. Simoni, Holographic grating formation in dye doped polymer dispersed liquid crystals 297

Optical communications

M.J. Guy, J.R. Taylor and R. Kashyap, Demonstration of the possibility of > 100 Gbit/s transmission over 77 km of standard fibre using a super-step-chirped fibre grating dispersion compensator. 77

S.K. Mondal and S.N. Sarkar, Interesting effect of optical Kerr nonlinearity in expanding single-mode regime of optical fibers using dispersion-flattened profiles 81

J.-J. Yu, K. Guan, Z. Xu and B. Yang, The effects of different dispersion compensation ratios on nonlinear single channel and WDM systems 85

A. Kumar and A. Kumar, A comparative numerical study of soliton switching in a nonlinear directional coupler with saturating nonlinearity 91

D.H. Naghski, J.T. Boyd, H.E. Jackson and A.J. Steckl, Potential for size reduction of AlGaAs optical channel waveguide structures fabricated by focused ion beam implantation and oxidation 97

I.D. Phillips, A. Gloag, D.G. Moodie, N.J. Doran, I. Bennion and A.D. Ellis, Simultaneous demultiplexing and clock recovery using a single electroabsorption modulator in a novel bi-directional configuration 101

M.J. Ablowitz, G. Biondini, S. Chakravarty and R.L. Horne, On timing Jitter in wavelength-division multiplexed soliton systems 305

Atomic, molecular and plasma physics

K. Kiersnowski, L. Józefowski and T. Dohnalik, Evanescent light–atom interaction detected by optogalvanic effect 106

Condensed matter

M. Mazzoni, Emission spectra following radiation trapping switching off: coherent effects detected up to resonance and signal enhancement 111

A.A. Bugayev and P.P. Boriskov, Time-resolved two-beam coupling in silicon 115

D. Tonova, A. Paneva and B. Pantchev, Determination of refractive index profiles of gradient optical waveguides by ellipsometry 121

Quantum optics

R. Bonifacio, Classical and quantum self amplified spontaneous emission in a high gain free electron laser 126

M. Löffler and H. Walther, Atomic coherence effects in the ion-trap laser 131

M. Höijer and G. Björk, Modification of spontaneous emission rate in planar dielectric microcavities – seen as superradiance and subradiance 319

D. Dragoman and M. Dragoman, Optical modelling of quantum dots 331

E. Landahl, D. Baiocchi and J.R. Thompson, A simple analytic model for noise shaping by an optical fiber Raman generator 339

H.M. Castro-Beltran, J.J. Sanchez-Mondragon and S.M. Chumakov, Extra revivals in cooperative atomic inversion in a cavity 348

Lasers

G.L. Bourdet and G. Lescroart, Theoretical modelling of mode formation in Tm^{3+}:YVO_4 microchip lasers 136

G.L. Bourdet, G. Lescroart and R. Muller, Spectral characteristics of 2 μm microchip Tm:YVO_4 and Tm,Ho:YLF lasers 141

M. Müller, V.P. Kalosha and J. Herrmann, 2π-pulse laser using an intracavity quantum-well absorber 147

H. Liu and J. Sun, Maser action without inversion in interstellar space 153

T.-C. Yen, J.-W. Chang, J.-M. Lin and R.-J. Chen, High-frequency optical signal generation in a semiconductor laser by incoherent optical feedback 158

R.M. Hofstra, M.J. Zwegers, F.A. van Goor and W.J. Witteman, Variable reflectivity unstable resonators for a long pulse XeCl excimer laser 163

B. Chassagne, G. Jonusauskas, J. Oberlé and C. Rullière, Multipulse operation regime in a self-mode-locked Cr^{4+}:forsterite femtosecond laser 355

Nonlinear optics

J.E. Bernard, L. Marmet and A.A. Madej, A laser frequency lock referenced to a single trapped ion 170

A.V. Khomenko, E. Nippolainen, A.A. Kamshilin, A. Zúñiga Segundo and T. Jaaskelainen, Leaky photorefractive surface waves in $Bi_{12}TiO_{20}$ and $Bi_{12}SiO_{20}$ crystals 175

J.N. Sweetser, J.L. Durant and R. Trebino, Ultrafast spectroscopy of high-lying excited states via eight-wave mixing 180

Q. Lin and E. Wintner, Three-dimensional evolution of ultrashort pulses in dispersive media beyond the slowly varying envelope approximation 185

J.T. Manassah and B. Gross, Superradiance in a dense open Λ-system 189

R. Macdonald, P. Meindl, G. Chilaya and D. Sikharulidze, Photo-excitation of space charge fields and reorientation of a nematic liquid crystal of discotic molecules 195

T. Zhang, J. Li, P. Gao, Q. Gong, K. Tang, X. Jin, S. Zheng and L. Li, Enhanced optical limiting performance of a novel molybdenum complex of fullerene 201

K. Meerholz, R. Bittner and Y. De Nardin, Field asymmetry of the dynamic gain coefficient in organic photorefractive devices 205

K.L. Vodopyanov, Megawatt peak power 8–13 μm CdSe optical parametric generator pumped at 2.8 μm 210

L. Zhang, W. Zhang, X. Chen, J. Xu, G. Zhang, Z. Shao, H. Chen and J. Han, Suppression of dynamic instability and comparison of the response time in mutually pumped phase conjugators 213

C.-F. Li and G.-C. Guo, The one-dimensional soliton state of Bose-Einstein condensate 219

N. Hild, S. Khodja, C. Andraud, I. Ledoux, J. Zyss and A. Collet, Crystal growth and characterisation of new organic nonlinear optical materials: 6-cyano and 6-nitro-2,2-dimethyl-3,4-epoxychroman 223

J.D. Shakos, A.M. Cox, D.P. West, K.S. West, F.A. Wade, T.A. King and R.D. Blackburn, Processes limiting the rate of response in photorefractive composites 230

X.G. Huang and M.R. Wang, A novel quasi-phase-matching frequency doubling technique 235

H. Steudel, C. Figueira de Morisson Faria, M.G.A. Paris, A.M. Kamchatnov and O. Steuernagel, Second harmonic generation: the solution for an amplitude-modulated initial pulse 363

A. Beržanskis, A. Matijošius, A. Piskarskas, V. Smilgevičius and A. Stabinis, Sum-frequency mixing of optical vortices in nonlinear crystals 372

Y. Chen and J. Atai, Stability of fundamental solitons of coupled nonlinear Schrödinger equations 381

A. De Rossi, G. Assanto, S. Trillo and W.E. Torruellas, Excitation of stable transverse wavepackets with quadratic and cubic susceptibilities 390